

# ZIGEN

COMPLETE HD/IP  
CONNECTIVITY SOLUTIONS

## Zigen ZIG-PAX

Premium Digital / Analog Audio Extender



Transmitter



Receiver

4K 60 Hz 4:4:4  
HDCP 2.2

ZIG-PAX USER MANUAL

REVISION 2017.10.31

# Important Safety Instructions

1. Do not use this product near water.
2. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
3. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
4. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
5. Only use attachments/accessories specified by the manufacturer.
6. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
7. Unplug this apparatus during lightning storms or when unused for long periods of time.
8. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
9. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

# Warranty Information

## Powered Product Warranty

Zigen, Inc. warrants its powered products against any defects in materials and workmanship for a period of three years from the date of invoice. Touchscreen displays carry a one year parts and labor warranty. If a malfunction occurs during the warranty period, Zigen, Inc. will repair or replace a product to its original operating condition. A return authorization number must be obtained from Zigen, Inc. before products are returned for service.

## Non-Powered and Cable Products - Lifetime Limited Performance Warranty

Zigen, Inc. warrants that its non-powered products and cable products will be free from defects in material and workmanship for as long as you or your customer owns the product. All Zigen non-powered products and cables are designed and engineered to meet and exceed performance specifications. If, at anytime, the product fails due to manufacturer defect, Zigen will repair or replace the product to ensure that it meets original performance specifications. Reduced performance due to normal wear and tear, or damages caused by misuse or negligence will not be covered. Zigen will test and evaluate all non-powered and cable products claimed defective. Products must be shipped to Zigen, prepaid along with proof of purchase only after obtaining a Return Merchandise Authorization (RMA) number from the Zigen. This statement of policy is in lieu of any other policy expressed or implied and no representative or person is authorized to assume any other liability or adopt any other policy for Zigen without our written consent.

## Return Policy

If you would like to return a Zigen product, it can be done within 30 days of purchase for a full refund, less shipping and handling. Zigen will not be responsible for shipping and handling of product returns. Returns will only be accepted of products with proof of purchase, products in the original packaging with zero to minimal use and a Return Merchandise Authorization RMA number provided by Zigen.

# Contacting Zigen

## Technical Support

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# Features

- Three audio inputs can be switched: TOSLINK/COAX/Stereo.
- Three audio synchronous outputs: TOSLINK, COAX & RCA (L+R).
- The Transmitter is powered by the Receiver 12VDC by PoC technology.
- The transmission distance of Stereo audio signal can reach up to 170m (557 ft.) over a single CAT-X cable, and the TOSLINK, COAX audio signal may be extended up to 290m (951ft.)

# Packing List

The ZIG-PAX is packaged with the following items:

- 1 x ZIG-PAX Transmitter
- 1 x Power Adaptor(12VDC,1A)
- 1 x ZIG-PAX Receiver
- 4 x Mounting Ears & 8 x Screws
- 8 x Plastic Cushions
- 1 x User Manual

If any of these products are not present upon first opening of the package, please contact Zigen or your reseller.

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Zigen, Corp. reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.



This product uses UL-Listed power supplies



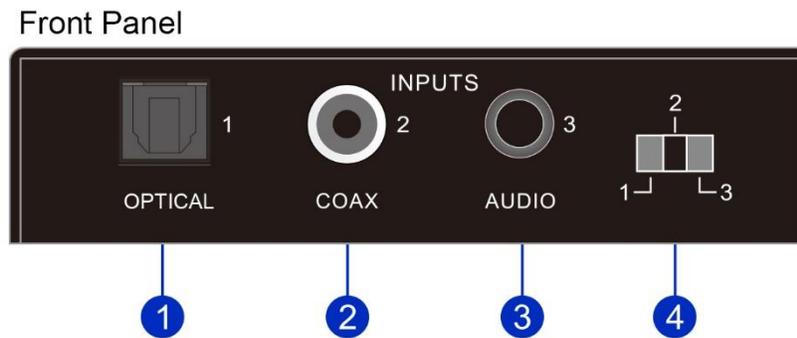
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# ZIG-PAX Introduction

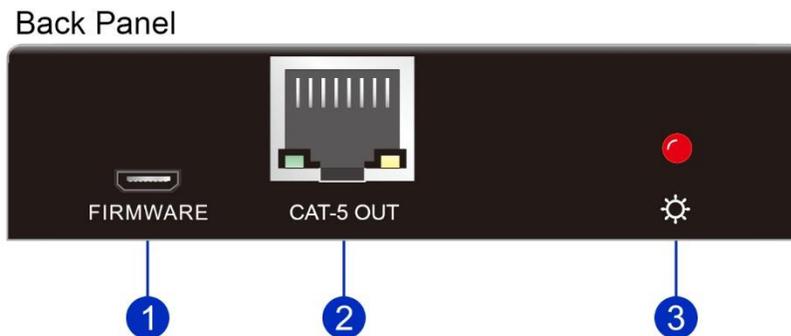
ZIG-PAX is an audio extender containing a Transmitter and a Receiver. It is designed to extend Stereo audio signal up to 170m (557 ft.), and TOSLINK, COAX audio signal up to 290m (951 ft.) via CAT-X cable.

# ZIG-PAX Transmitter Panel Description



## Transmitter Front Panel

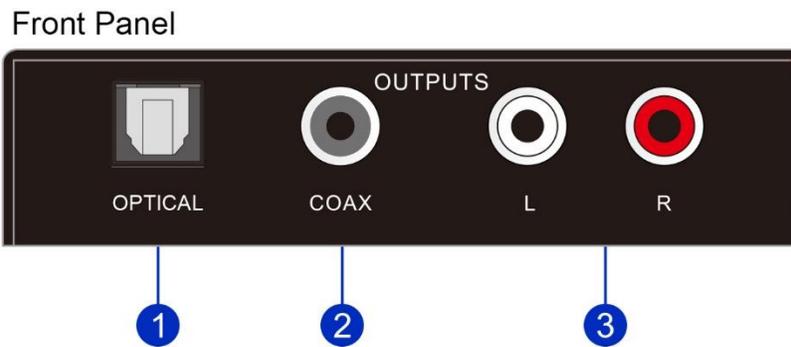
- 1 **OPTICAL**: digital audio input port, connects to audio source.
- 2 **COAX**: digital audio input port, connects to audio source.
- 3 **AUDIO**: Stereo audio input port, connects to audio source.
- 4 **DIP**: switcher for selecting audio input source.



## Transmitter Back Panel

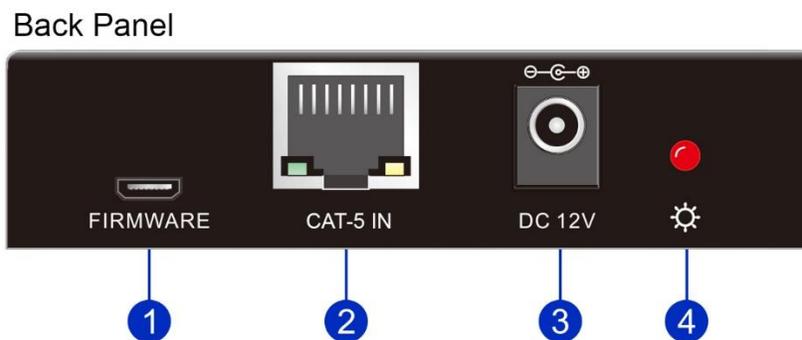
- 1 **FIRMWARE**: Micro USB port for firmware update.
- 2 **CAT-5 OUT**: port connects to the “CAT-5 IN” port of Receiver.
- 3 **POWER**: Red power indicator.

# ZIG-PAX Receiver Panel Description



## Receiver Front Panel

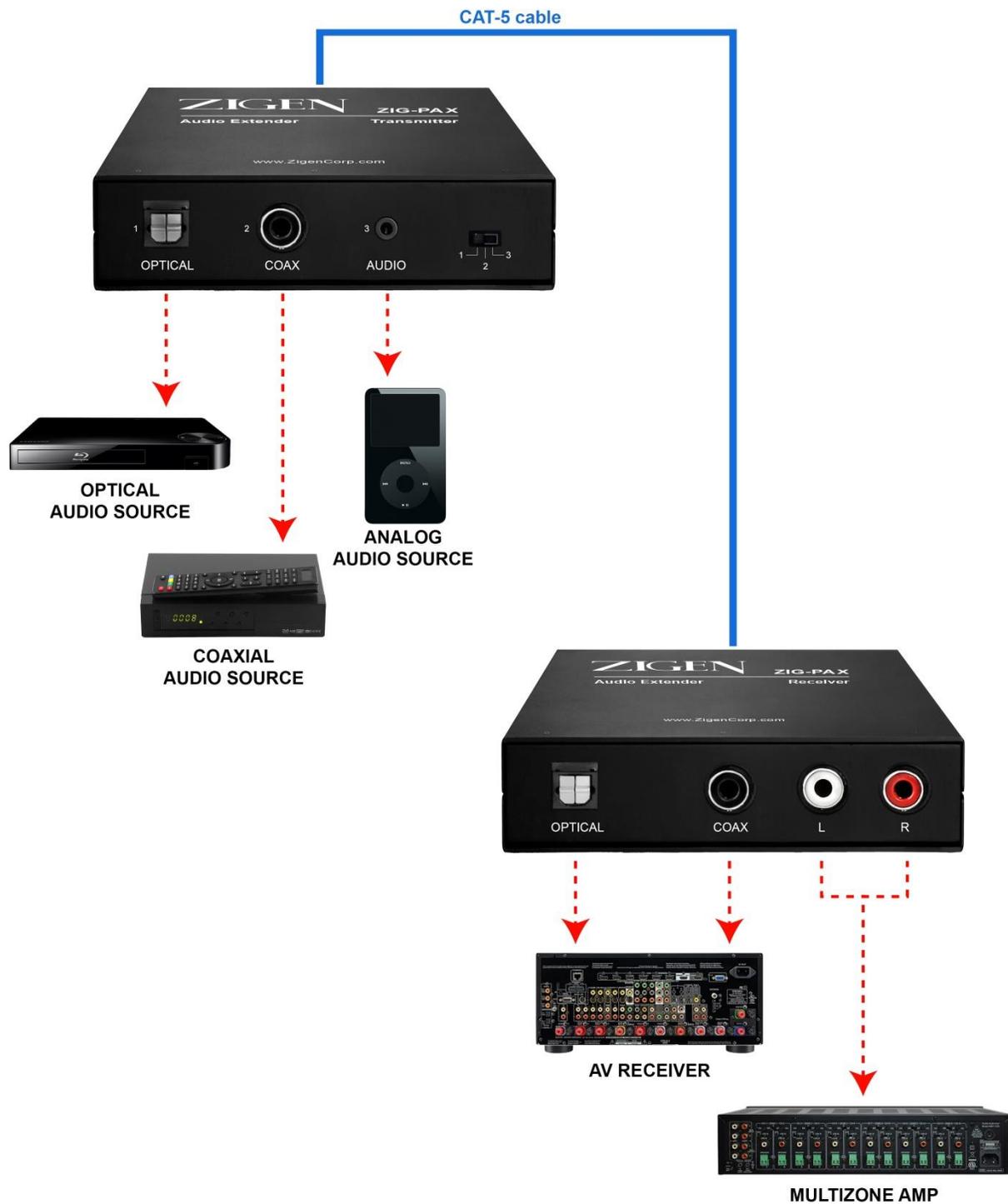
- 1 OPTICAL:** digital audio input port, connects to audio source.
- 2 COAX:** digital audio input port, connects to audio source.
- 3 RCA (L+R):** audio output port, connects to audio output device for playing.



## Receiver Back Panel

- 1 FIRMWARE:** Micro USB port for firmware update.
- 2 CAT-5 IN:** R ports connects to the “CAT-5 OUT” port of Transmitter.
- 3 DC12V:** port connects to 12VDC power adaptor.
- 4 POWER:** Red power indicator.

# Application Diagram (sample)



# Specifications

Transmitter		Receiver	
<b>Input</b>	TOSLINK, COAX or ANALOG	<b>Input</b>	CAT-5 IN
<b>Output</b>	CAT-5 OUT	<b>Output</b>	TOSLINK, COAX & RCA (L+R)
General			
<b>Audio Format</b>	TOSLINK & COAX: PCM/Dobly/DTS; AUDIO: Stereo		
<b>Sound Channel</b>	TOSLINK & COAX: 2.0-7.1		
<b>Frequency Response</b>	20 Hz to 20 kHz, $\pm 3$ dB		
<b>Sample Rate</b>	TOSLINK & COAX: 48k/96k/192k 16bit/18bit/24bit		
<b>Transmission Distance</b>	Stereo: Up to 170m / 557 ft. (CAT5e/6) TOSLINK/COAX: Up to 290m / 951 ft. (CAT5e/6)		
<b>Power Supply</b>	Input: 100VAC~240VAC, 50/60Hz; Output: 12VDC, 1A		
<b>Power Consumption</b>	2.5W (Max)		
<b>Operating Temperature</b>	-10 ~ +55°C		
<b>Humidity</b>	10% ~ 90%		
<b>Net Weight</b>	Transmitter: 110 g / 0.243 lb. ; Receiver: 119g / 0.262 lb.		
<b>Dimension(W*H*D)</b>	88mm x 80mm x 21.5mm		